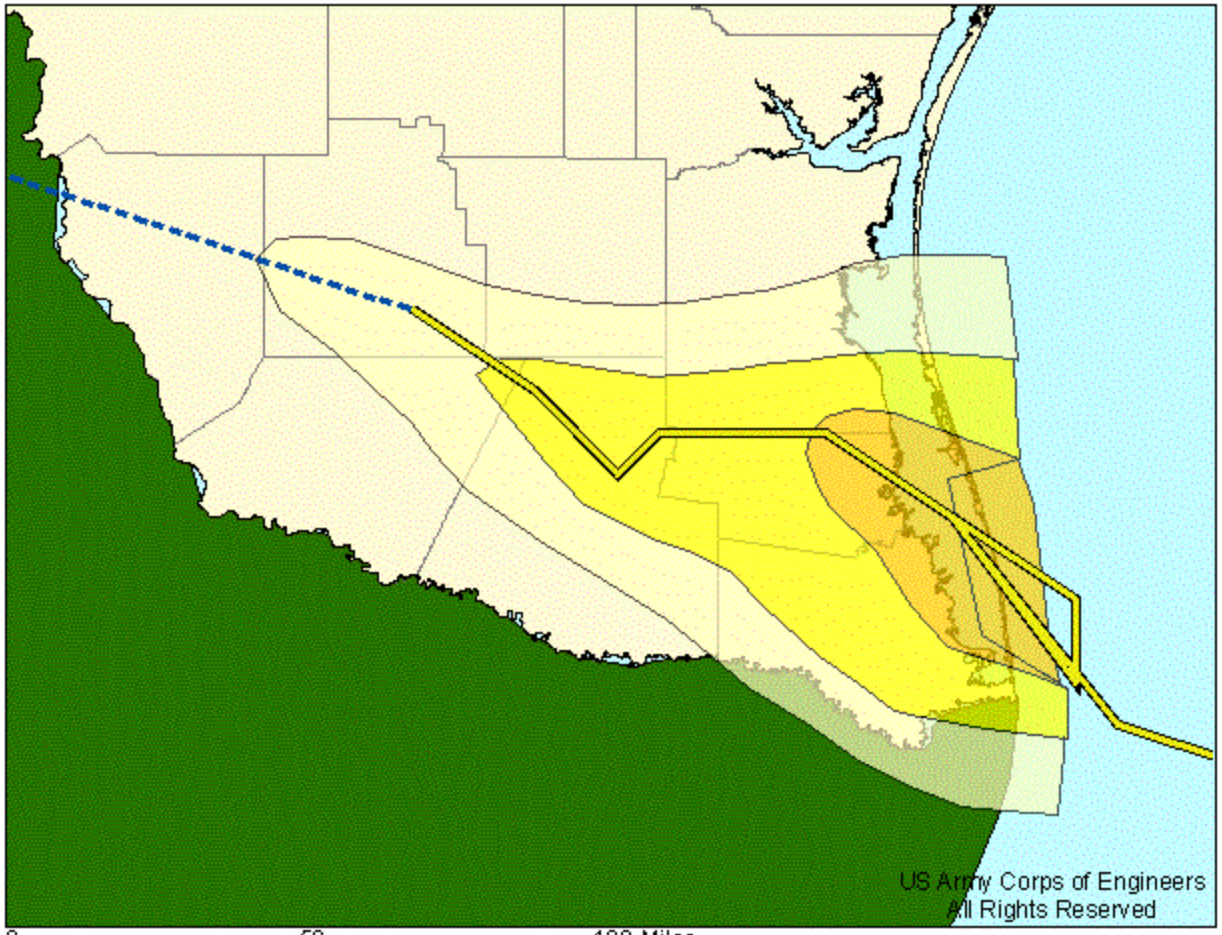
US Army Corps of Engineers

# Hurricane dolly Projected Damage Areas

## Landfall Plus About 16 Hours

**For Planning Purposes Only!**




### *Post Landfall Projected Damage Areas*

This model is based on a Category 2 storm making landfall near Brownsville, TX.

Forecast Track
Historic Track

**Projected Damage Areas**

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 2 storm making landfall near Brownsville, TX. These projections are based on information from the NHC (0500 EDT 07/24/2008) forecast.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

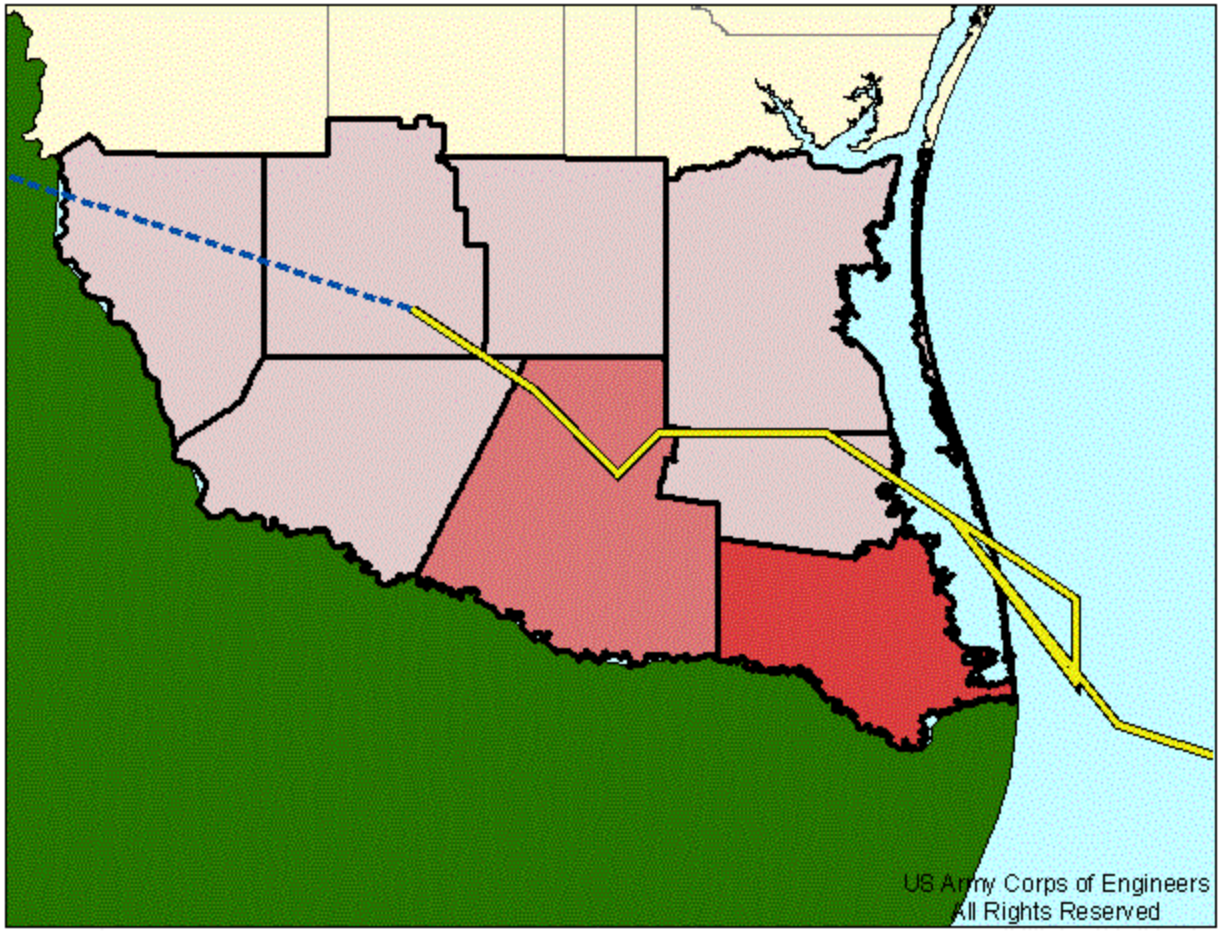
| Hurricane dolly Projected Damage Areas | |
|---|---|
| **Generated By:** Siemsen, LRL 0630 EDT 07/24/2008 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 1 of 18 |

US Army Corps of Engineers

# Hurricane dolly Debris Model

## Landfall Plus About **16** Hours

**For Planning Purposes Only!**




### *Post Landfall Debris Model Results*

Texas - 1,425,000 Yards

*Model results per County on following page*

This model is based on a Category 2 storm making landfall near Brownsville, TX.

Forecast Track
Historic Track

**Debris**

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 2 storm making landfall near Brownsville, TX. These projections are based on information from the NHC (0500 EDT 07/24/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englinkusace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

| Hurricane dolly Debris Model | |
|---|---|
| **Generated By:** Siemsen, LRL 0630 EDT 07/24/2008 | |
| **Sources:** HURREVAC LRL-DEBRIS |  |

US Army Corps of Engineers

# Hurricane dolly Debris Model

## Landfall Plus About 16 Hours

**For Planning Purposes Only!**

| State | Yards per State | County | Yards per County |
|---|---|---|---|
| Texas | | Brooks | 3,000 |
| | | Cameron | 979,000 |
| | | Hidalgo | 356,000 |
| | | Jim Hogg | 5,000 |
| | | Kenedy | < 1,000 |
| | | Starr | 4,000 |
| | | Willacy | 78,000 |
| | | Zapata | < 1,000 |
| Texas | 1,425,000 | | |

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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**Hurricane dolly Debris Model**

**Generated By:**
Siemsen, LRL 0630 EDT 07/24/2008

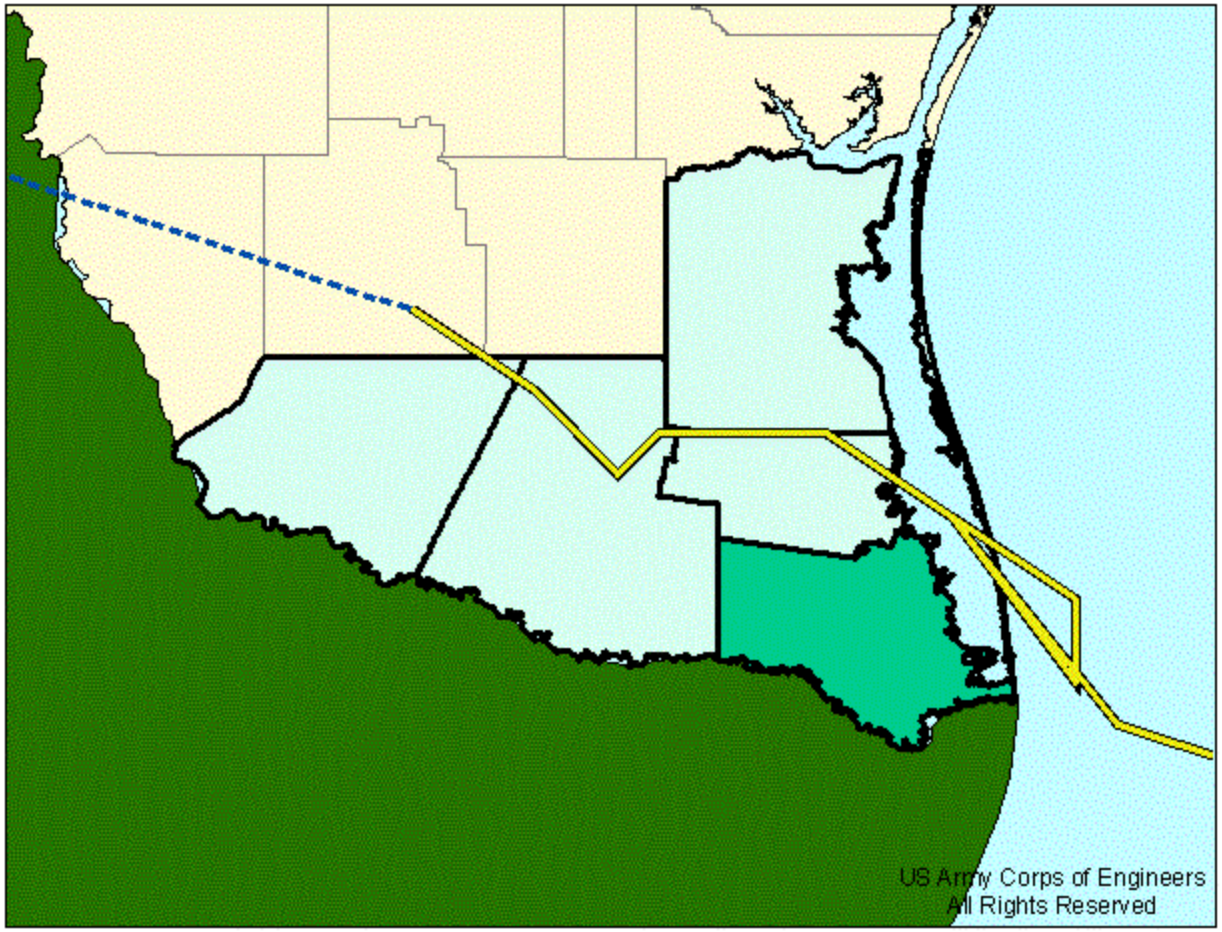
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane dolly Commodities Model

## Landfall Plus About **16** Hours

**For Planning Purposes Only!**




### *Post Landfall Water Model Results*

**Day One / Day Two / Day Three**
Texas - 18 Truckloads

*Model results per County on following page*

This model is based on a Category 2 storm making landfall near Brownsville, TX.

Forecast Track
Historic Track

**Commodities**

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 2 storm making landfall near Brownsville, TX. These projections are based on information from the NHC ***(0500 EDT 07/24/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

| Hurricane dolly Commodities Model | |
|---|---|
| **Generated By:** Siemsen, LRL 0630 EDT 07/24/2008 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 4 of 18 |

US Army Corps of Engineers

# Hurricane dolly Commodities Model

## Landfall Plus About **16** Hours

**For Planning Purposes Only!**

| State | Truckloads per State | County | Truckloads per County |
|---|---|---|---|
| Texas | | Cameron | 12 |
| | | Hidalgo | 2 |
| | | Kenedy | 1 |
| | | Starr | 1 |
| | | Willacy | 2 |
| Texas | 18 | | |

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
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**Hurricane dolly Commodities Model**

**Generated By:**
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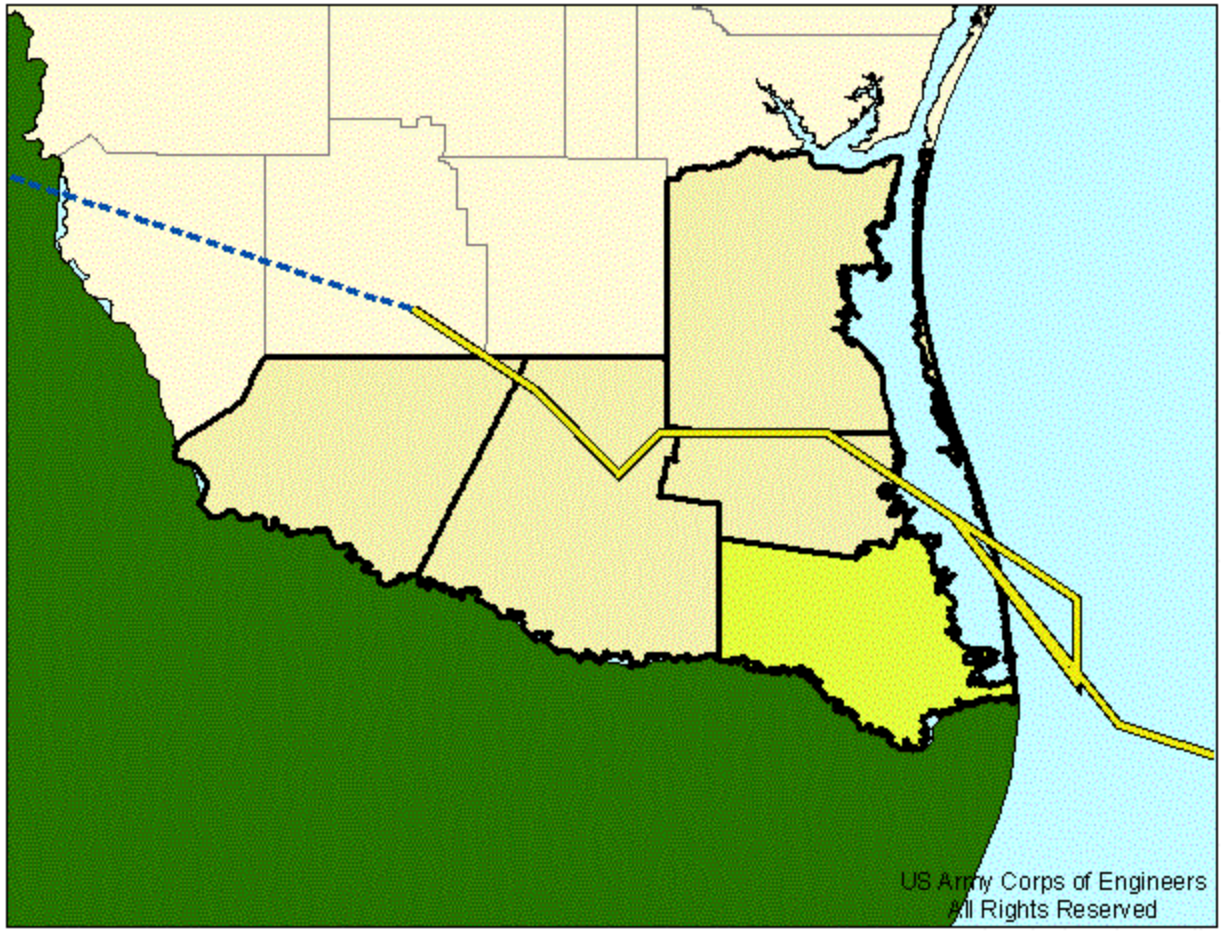
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane dolly Temporary Roofing Model

## Landfall Plus About **16** Hours

**For Planning Purposes Only!**




### *Post Landfall Temporary Roofing Model Results*

Texas - 3,200

*Model results per County on following page*

This model is based on a Category 2 storm making landfall near Brownsville, TX.

Forecast Track
Historic Track

**Temporary Roofing**

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall near Brownsville, TX. These projections are based on information from the NHC (0500 EDT 07/24/2008) forecast. Temporary roofing is based on 4% in CAT 1 and 8% in CAT 2.

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

| Hurricane dolly Roofing Model | |
|---|---|
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| **Sources:** HURREVAC LRL-DEBRIS | Page 6 of 18 |

US Army Corps of Engineers

# Hurricane dolly Temporary Roofing Model

## Landfall Plus About 16 Hours

**For Planning Purposes Only!**

| State | House Units per State | County | House Units per County |
|---|---|---|---|
| Texas | | Cameron | 2,600 |
| | | Hidalgo | 300 |
| | | Kenedy | < 100 |
| | | Starr | < 100 |
| | | Willacy | 300 |
| Texas | 3,200 | | |

Temporary roofing is based on 4% in CAT 1 and 8% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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**Hurricane dolly Roofing Model**

**Generated By:**
Siemsen, LRL 0630 EDT 07/24/2008

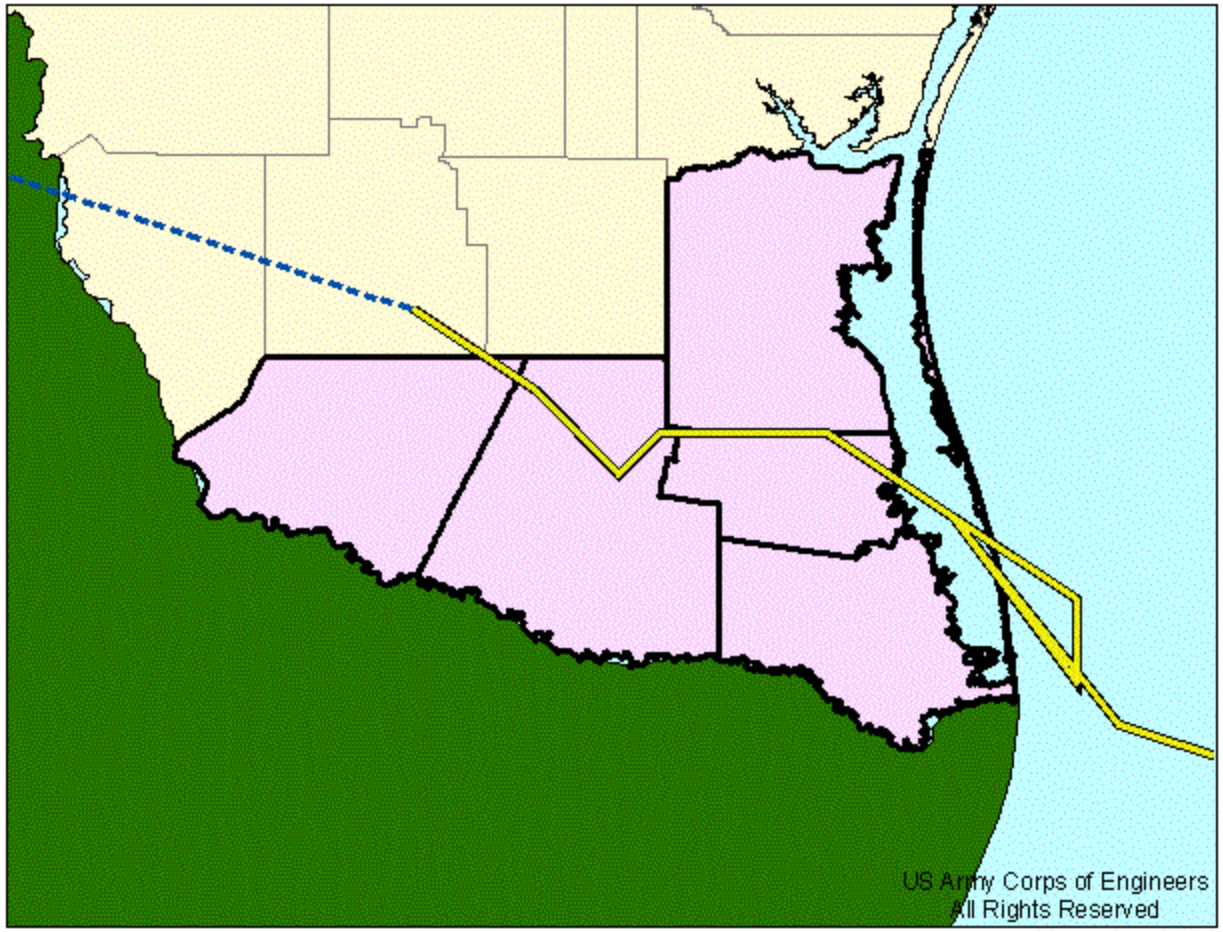
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane dolly Temporary Housing Model

## Landfall Plus About **16** Hours

**For Planning Purposes Only!**




0 50 100 Miles

### *Post Landfall Temporary Housing Model Results*

Texas - 700

*Model results per County on following page*

This model is based on a Category 2 storm making landfall near Brownsville, TX.

Forecast Track
Historic Track

**Temporary Housing**

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall near Brownsville, TX. These projections are based on information from the NHC (0500 EDT 07/24/2008) forecast. Temporary housing is based on 1% in CAT 1 and 2% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

| Hurricane dolly Housing Model | |
|---|---|
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| **Sources:** HURREVAC LRL-DEBRIS | Page 8 of 18 |

US Army Corps of Engineers

# Hurricane dolly Temporary Housing Model

## Landfall Plus About 16 Hours

**For Planning Purposes Only!**

| State | House Units per State | County | House Units per County |
|---|---|---|---|
| Texas | | Cameron | 700 |
| | | Hidalgo | < 100 |
| | | Kenedy | < 100 |
| | | Starr | < 100 |
| | | Willacy | < 100 |
| Texas | 700 | | |

Temporary housing is based on 1% in CAT 1 and 2% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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**Hurricane dolly Housing Model**

**Generated By:**
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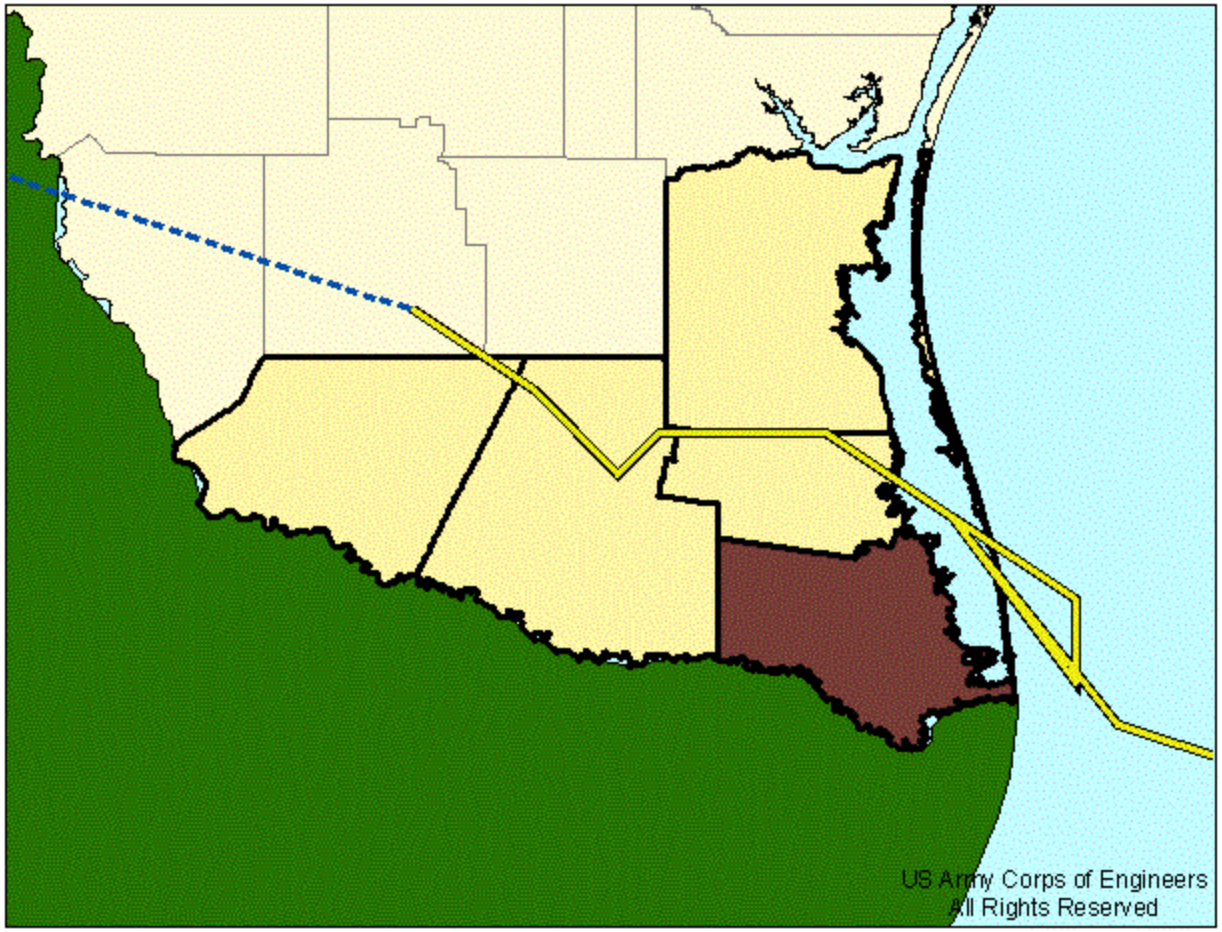
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane dolly Population Model

## Landfall Plus About **16** Hours

**For Planning Purposes Only!**




### *Post Landfall Population Model Results*

Texas - 235,000

*Model results per County on following page*

This model is based on a Category 2 storm making landfall near Brownsville, TX.

Forecast Track
Historic Track

**Population**

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 2 storm making landfall near Brownsville, TX. These projections are based on information from the NHC (0500 EDT 07/24/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

| Hurricane dolly Population Model | |
|---|---|
| **Generated By:** Siemsen, LRL 0630 EDT 07/24/2008 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 10 of 18 |

US Army Corps of Engineers

# Hurricane dolly Population Model

## Landfall Plus About 16 Hours

**For Planning Purposes Only!**

| State | Population per State | County | Population per County |
|---|---|---|---|
| Texas | | Cameron | 192,000 |
| | | Hidalgo | 22,000 |
| | | Kenedy | < 1,000 |
| | | Starr | < 1,000 |
| | | Willacy | 21,000 |
| Texas | 235,000 | | |

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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**Hurricane dolly Population Model**

**Generated By:**
Siemsen, LRL 0630 EDT 07/24/2008

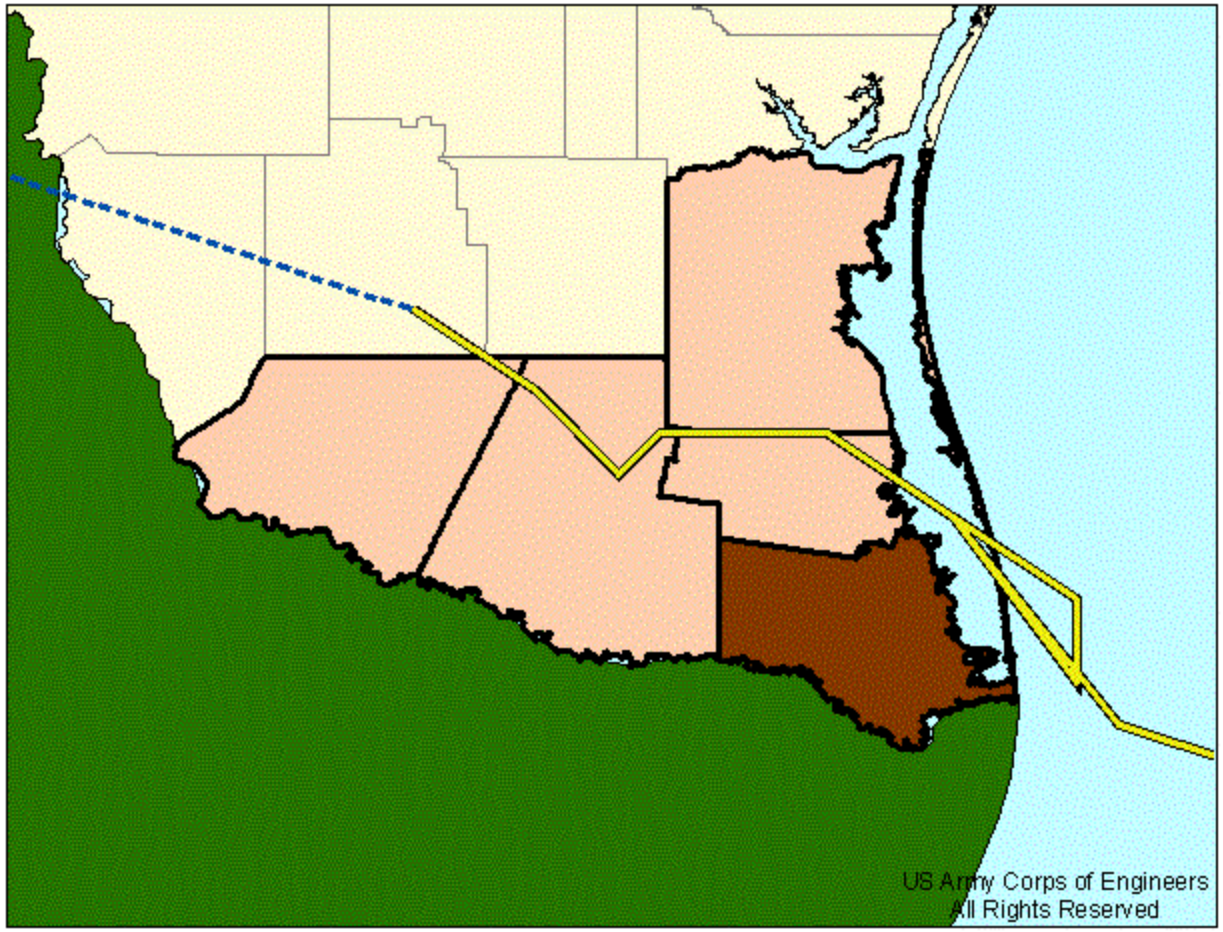
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane dolly Households Model

## Landfall Plus About **16** Hours

**For Planning Purposes Only!**




0 50 100 Miles

### *Post Landfall Households Model Results*

Texas - 70,000

*Model results per County on following page*

This model is based on a Category 2 storm making landfall near Brownsville, TX.

Forecast Track
Historic Track

**Households**

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 2 storm making landfall near Brownsville, TX. These projections are based on information from the NHC (0500 EDT 07/24/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

| Hurricane dolly Households Model | |
|---|---|
| **Generated By:** Siemsen, LRL 0630 EDT 07/24/2008 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 12 of 18 |

US Army Corps of Engineers

# Hurricane dolly Households Model

## Landfall Plus About 16 Hours

**For Planning Purposes Only!**

| State | Households per State | County | Households per County |
|---|---|---|---|
| Texas | | Cameron | 58,000 |
| | | Hidalgo | 6,000 |
| | | Kenedy | < 1,000 |
| | | Starr | < 1,000 |
| | | Willacy | 6,000 |
| Texas | 70,000 | | |

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

Details about this model may be obtained at http://www.enqlink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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**Hurricane dolly Households Model**

**Generated By:**
Siemsen, LRL 0630 EDT 07/24/2008

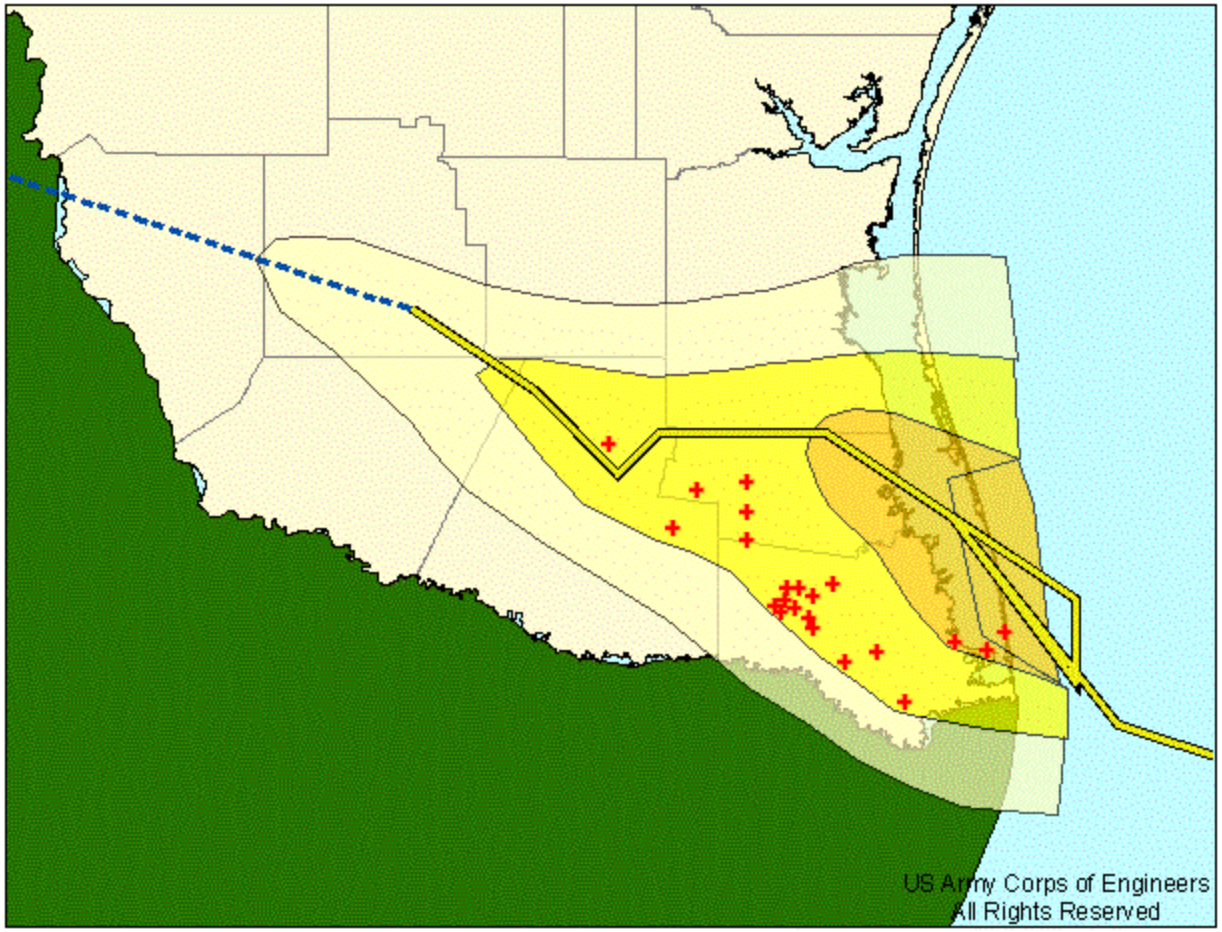
**Sources:**
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

# Hurricane dolly Fire Stations

## Landfall Plus About **16** Hours

**For Planning Purposes Only!**




0 50 100 Miles

+ Fire Stations
Forecast Track
Historic Track

### *Most Probable Landfall Fire Stations Inside Hurricane Force Winds*

Texas - 22

*Model results per County on following page*

This model is based on a Category 2 storm making landfall near Brownsville, TX.

Information provided on this page displays a Category 2 storm making landfall near Brownsville, TX. These projections are based on information from the NHC (0500 EDT 07/24/2008) forecast.

The number of fire stations included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

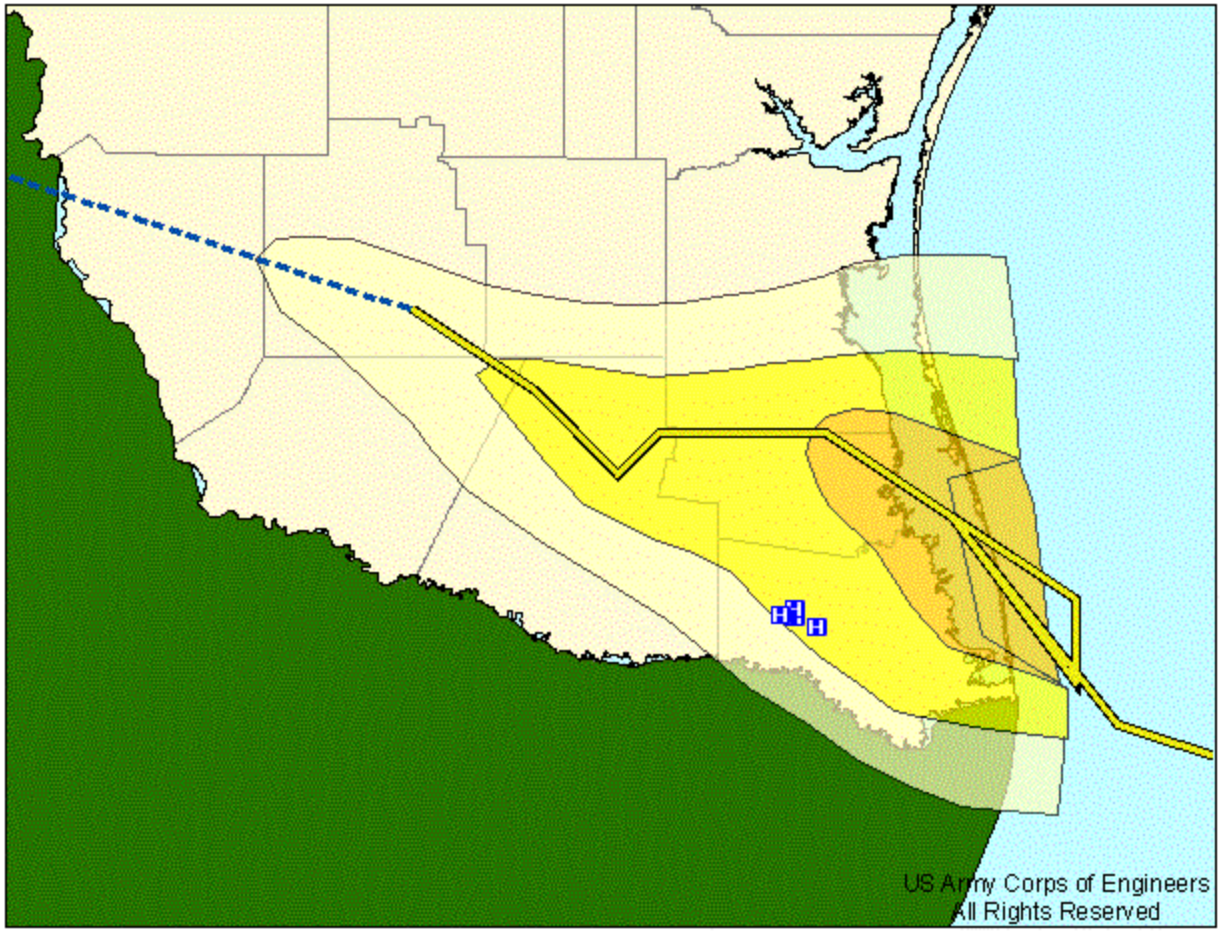
| Hurricane dolly Fire Stations | |
|---|---|
| **Generated By:** Siemsen, LRL 0630 EDT 07/24/2008 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 14 of 18 |

US Army Corps of Engineers

# Hurricane dolly Hospitals

## Landfall Plus About 16 Hours

**For Planning Purposes Only!**




0 50 100 Miles

### *Most Probable Landfall Hospitals Inside Hurricane Force Winds*

Texas - 4

*Model results per County on following page*

This model is based on a Category 2 storm making landfall near Brownsville, TX.

Hospitals
Forecast Track
Historic Track

Information provided on this page displays a Category 2 storm making landfall near Brownsville, TX. These projections are based on information from the NHC (0500 EDT 07/24/2008) forecast.

The number of hospitals included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

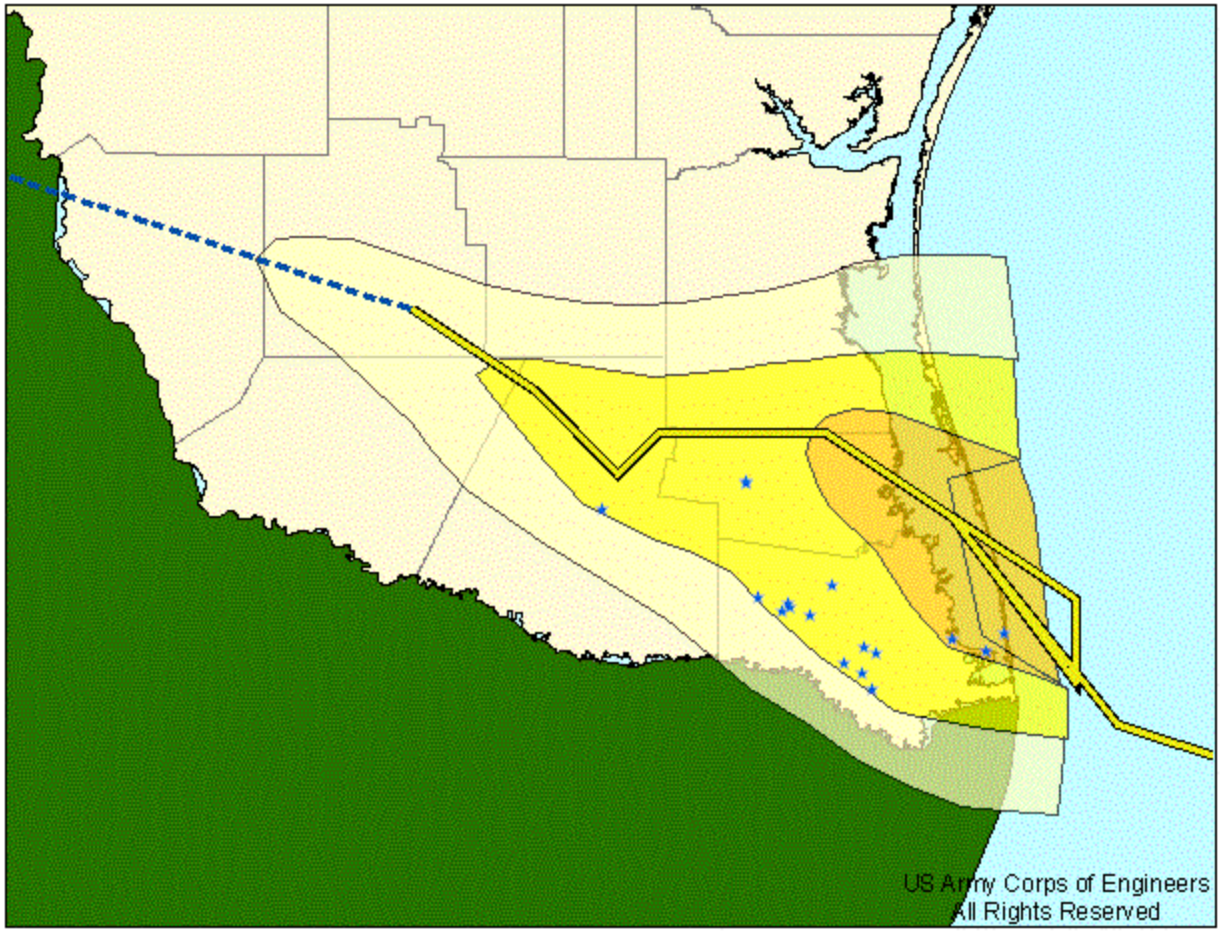
| Hurricane dolly Hospitals | |
|---|---|
| **Generated By:** Siemsen, LRL 0630 EDT 07/24/2008 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 15 of 18 |

US Army Corps of Engineers

# Hurricane dolly Law Enforcement

## Landfall Plus About 16 Hours

**For Planning Purposes Only!**




0 50 100 Miles

### *Most Probable Landfall Law Enforcement Inside Hurricane Force Winds*

Texas - 17

*Model results per County on following page*

This model is based on a Category 2 storm making landfall near Brownsville, TX.

- Law Enforcement
- Forecast Track
- Historic Track

Information provided on this page displays a Category 2 storm making landfall near Brownsville, TX. These projections are based on information from the NHC (0500 EDT 07/24/2008) forecast.

The number of law enforcement included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

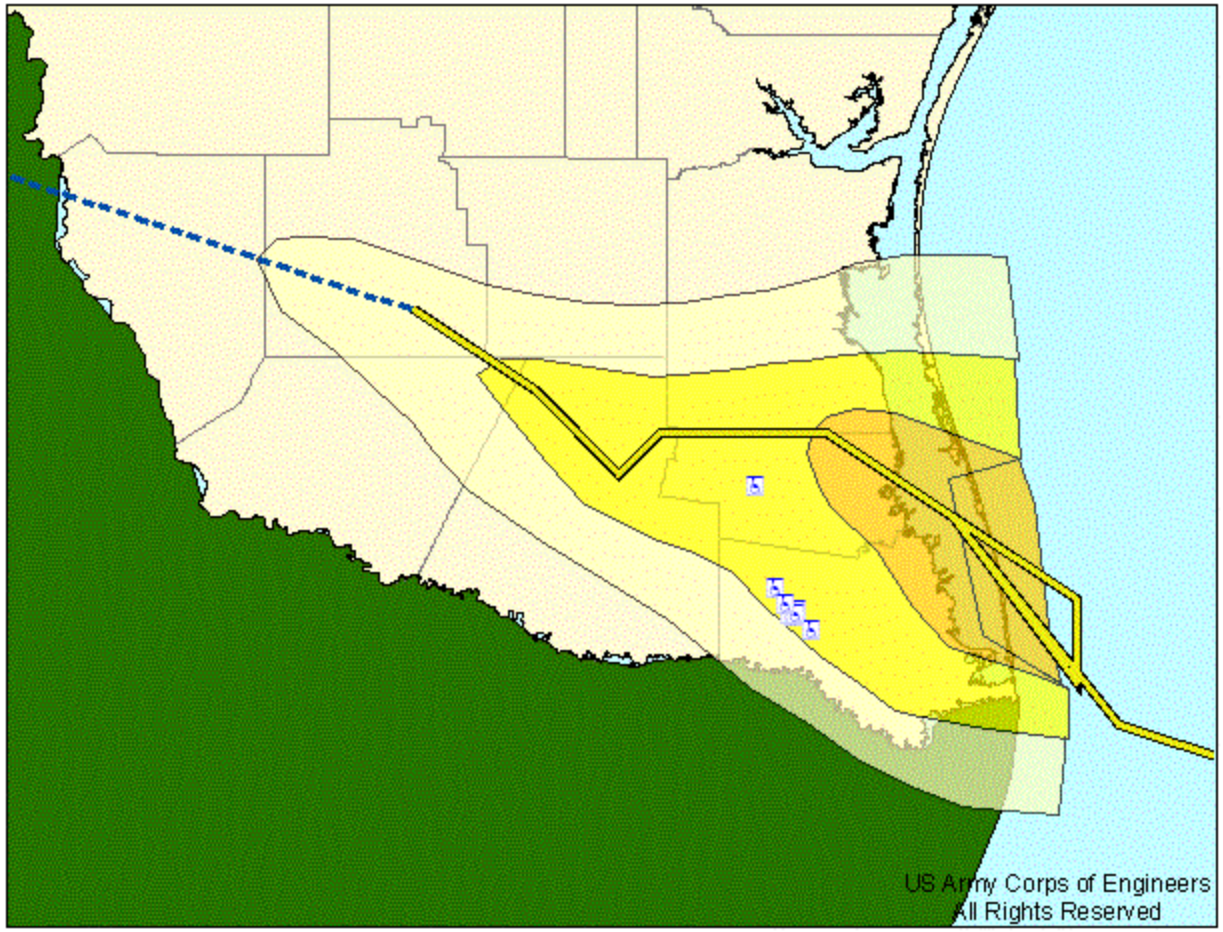
| Hurricane dolly Law Enforcement | |
|---|---|
| **Generated By:** Siemsen, LRL 0630 EDT 07/24/2008 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 16 of 18 |

US Army Corps of Engineers

# Hurricane dolly Nursing Homes

## Landfall Plus About **16** Hours

**For Planning Purposes Only!**




0 50 100 Miles

Nursing Homes
Forecast Track
Historic Track

### *Most Probable Landfall Nursing Homes Inside Hurricane Force Winds*

Texas - 12

*Model results per County on following page*

This model is based on a Category 2 storm making landfall near Brownsville, TX.

Information provided on this page displays a Category 2 storm making landfall near Brownsville, TX. These projections are based on information from the NHC (0500 EDT 07/24/2008) forecast.

The number of nursing homes included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

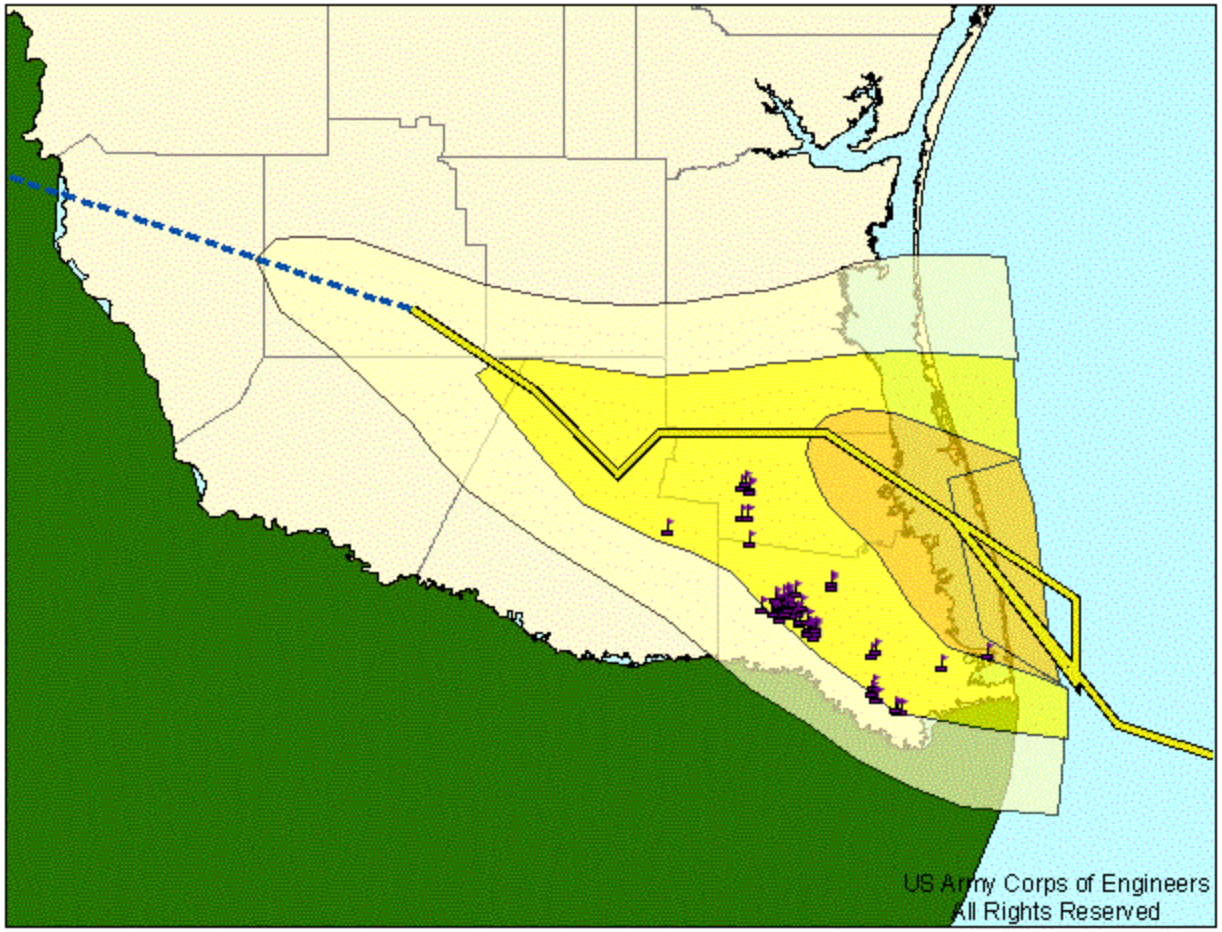
| Hurricane dolly Nursing Homes | |
|---|---|
| **Generated By:** Siemsen, LRL 0630 EDT 07/24/2008 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 17 of 18 |

US Army Corps of Engineers

# Hurricane dolly Schools

## Landfall Plus About **16** Hours

**For Planning Purposes Only!**




0 50 100 Miles

### *Most Probable Landfall Schools Inside Hurricane Force Winds*

Texas - 69

*Model results per County on following page*

This model is based on a Category 2 storm making landfall near Brownsville, TX.

Schools
Forecast Track
Historic Track

Information provided on this page displays a Category 2 storm making landfall near Brownsville, TX. These projections are based on information from the NHC (0500 EDT 07/24/2008) forecast.

The number of schools included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

| Hurricane dolly Schools | |
|---|---|
| **Generated By:** Siemsen, LRL 0630 EDT 07/24/2008 | |
| **Sources:** HURREVAC LRL-DEBRIS | Page 18 of 18 |